

**O'Bryen, Barbara**

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**From:** Swope, Sheridan  
**Sent:** Wednesday, August 11, 2004 2:02 PM  
**To:** O'Bryen, Barbara  
**Subject:** 09/712,338

Barb, Would you do me the favor of doing the following alignment?

SID 2 of 09/712,338 with NCBI Acc#S38953 ( <http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=protein&val=481619> )  
Thanks!

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571-272-0943 (voice)  
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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 11, 2004, 14:27:53 ; Search time 0.001 Seconds  
(without alignments)  
234.785 Million cell updates/sec

Title: US-09-712-338-2

Perfect score: 2979

Sequence: 1 MRGYEFLSLPLVAASWALP.....HTQSSVPLPTATSMSSVGMVA 555

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 423 residues

Total number of hits satisfying chosen parameters: 1

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : s38953.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	894	30.0	423	1	s38953

ALIGNMENTS

RESULT 1

s38953  
; TOIG of: s38953 check: 3675 from: 1 to: 423  
; P1:S38953 - carboxypeptidase D (EC 3.4.16.6) - Penicillium janthinellum  
; N/Alternate names: carboxypeptidase S1  
; C/Species: Penicillium janthinellum  
; C/Date: 18-Feb-1994 #sequence\_revision 19-Apr-1996 #text\_change 31-Mar-2000  
; C/Accession: S38953  
; R/Svendsen, I.; Hofmann, T.; Endrizzi, J.; Remington, S.J.; Breddam, K.  
; FEBS Lett. 333, 39-43, 1993  
; A/Title: The primary structure of carboxypeptidase S1 from Penicillium  
; janthinellum.  
; A/Reference number: S38953; MUID:94039747; PMID:8224168  
; A/Accession: S38953  
; A/Status: preliminary  
; A/Molecule type: protein  
; A/Residues: 1-423 <SVE>  
; C/Superfamily: serine carboxypeptidase  
; C/Keywords: hydrolase; serine carboxypeptidase  
; S38953 Length: 423 August 11, 2004 14:21 Type: P Check: 3675 ..  
s38953

Query Match 30.0%; Score 894; DB 1; Length 423;  
Best local Similarity 40.1%; Pred. No. 0;  
Matches 186; Conservative 66; Mismatches 160; Indels 52; Gaps 8;

QY 59 GYCETTRGVKSYSGYVDTPSPSHTFWFEEFARNPETAPITLWLNCGPGSDSLIGLPEEL 118  
Db 6 GICETTPGVNOYSGYLSVGSNNMWFEEFARNPQAPLAANFNGPGSCSSMIGLQEN 65  
QY 119 GPCH-VNSTFDDYINPHSWNEVSNLLFSLQPLGVGYFSYSDTVDSINPVTGVVENSFAG 177  
Db 66 GPCHEVNGDSTPESLNSMNNYANNMIVDQPIGVGFSYG----- 104  
QY 178 VQGRYPTTIDATLIDTNNLAEEAWEILQGLSLGSLDSRVQSKDFSLWTESYGGHYGPA 237  
Db 105 -----TDDVT---STVTAAPYVWNLQAFYAQRPEYESR----DFAIFTESYGGHYGPE 151  
QY 238 FFWHFEQNERIANGSVNGVOLNFNSLGIINGIIIEAIAQAPYYPPEFVAVNNTYGIKAVNET 297  
Db 152 FASYIEQQNAAIKAGSVTGQNNVIALGVNNGWIDSTIQEKAYIDFSYNNSYQOIIDSST 211  
QY 298 VVYMKFANQMPNGCODLISTCKQTNRTALADYALCAEATNMCRDNVEGYPYAFAGRGVY 357  
Db 212 RSLLDAYN---NQLPALQCSQSGST-----SDCTNADSVCYQNIETSISSGGDFVY 263  
QY 358 DIRHPYDDPTPPSYYNKFLAKDSVMDAIGVNNINTQSNNDVYAFQOTGDFVWFNFIEDL 417  
Db 264 DIREPSNDPYPKTYSTYLSPTVVKAIKAGTNYQECNPGNPKFASTGDNP-RSFLSTL 322  
QY 418 EELALPVRVSLIYGDADYICNWFGGQAVSLAANYSAQAQPSAGYTPLKVNGVYGETR 477  
Db 323 SSVVQSGINVLWAGDADWICNWLGNVEVANAVDPGNAQPSALDLAPYTVNGVKGQFK 382  
QY 478 EYCNFSFTRVYEAGHEVYQYPIASLQLFNRTIFGWDIAEQKK 521  
Db 383 TVDNFSLKLVYAGHEVYQYQPDALQAFKQII-----QKK 418

Search completed: August 11, 2004, 14:27:53  
Job time : 0.001 secs